

Amendments to the Claims

This listing of claims will replace all prior listings of claims in the application.

Listing of Claims

CLAIM 1 - CANCELLED.

2. (Currently Amended) The metallic heat transfer tube according to Claim ~~1~~24, wherein the fins and the primary grooves extend helically.

3. (Currently Amended) The metallic heat transfer tube according to Claim ~~1~~24, wherein the fins and the primary grooves extend annularly.

4. (Currently Amended) The metallic heat transfer tube according to Claim ~~1~~24, wherein the fins and the primary grooves extend in axial direction.

5. (Withdrawn) The metallic heat transfer tube according to Claim 2, 3 or 4, wherein the re-entrant secondary grooves extend with an essentially uniform cross section in direction of the primary grooves.

6. (Currently Amended) The metallic heat transfer tube according to Claim 2, 3 or 4, wherein the cross section of the re-entrant secondary grooves, ~~which extend in direction of the primary grooves,~~ is varied at regular intervals.

CLAIM 7 - CANCELLED.

8. (Currently Amended) The metallic heat transfer tube according to one of the Claims ~~1 to 4~~ 24, 2, 3 or 4, wherein the re-entrant secondary grooves ~~expand~~ have a height that is at a maximum up to 45% of the fin height H.

9. (Currently Amended) The metallic heat transfer tube according to Claim 8, wherein the re-entrant secondary grooves ~~expand~~ have a height that is at a maximum up to 20% of the fin height H.

10. (Currently Amended) The metallic heat transfer tube according to one of the Claims ~~1 to 4~~ 24, 2, 3 or 4, wherein the fins have a uniform height H.

11. (Currently Amended) The metallic heat transfer tube according to one of the Claims ~~1 to 4~~ 24, 2, 3 or 4, wherein tips of the fin are notched.

12. (Original) The metallic heat transfer tube according to Claim 10, wherein the fins have an essentially T-shaped cross section.

13. (Currently Amended) The metallic heat transfer tube according to one of the Claims ~~1 to 4~~ 24, 2, 3 or 4, wherein the tube has at least one of plain ends and plain center lands.

14. (Currently Amended) ~~the~~ The metallic heat transfer tube according to one of the Claims ~~1 to 4~~ 24, 2, 3 or 4, wherein the tube is designed as a seamless tube.

15. (Currently Amended) The metallic heat transfer tube according to one of the Claims ~~1 to 4~~ 24, 2, 3 or 4, wherein the tube is designed as a tube welded with a longitudinal seam.

CLAIMS 16-23 - CANCELLED.

24. (New) A metallic heat transfer tube, comprising:
integral fins formed on an outside of a tube wall, a
primary groove being defined between mutually adjacent
completely formed fins, a root of the completely formed fins
projecting generally radially outwardly from the tube wall at
a base of the primary groove;

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a re-entrant groove having opposing sidewalls and a
bottom wall formed between the roots of the mutually adjacent
completely formed fins and in the base of the primary groove,
the re-entrant groove extending coextensively with the primary
groove, the re-entrant groove being formed by a pair of
projections extending continuously with the primary groove and
projecting toward one another from a respective root of the
mutually adjacent fins and terminating a first measured
distance from one another so as to define a gap therebetween
and so that a second measured distance at a widest spacing
between the sidewalls of the re-entrant groove measured along
a theoretical line spaced from and parallel to a further
theoretical line containing the first measured distance is
greater than the first measured distance, a relationship
between the first and second measured distances being
continuously maintained throughout the length of the primary
groove.
